

IN THE SPECIFICATION:

Please replace the paragraphs at page 18, line 14 - page 19, line 7, with the following amendment paragraphs:

--Feature extraction in step S901 provides a time series of feature vectors. Vector Quantization (VQ) is a technique that maps a large set of vectors to a smaller representative indexed set of vectors (code words) designated as the code-book. VQ is used to compress vector information. VQ reduces multidimensional vectors comprising [[of]] the computed features [[onto]] into a single value. Figure [[10A]] 10B is a flow diagram showing computer executable process steps to perform VQ, according to one aspect of the present invention.

In step S101, ~~identify~~ a set of representative points are identified. Figure [[10B]] 10A shows a distribution of a set of points. Each point may include a plurality of features defined above. Generally, the representative points are based upon music samples across many genres of music. The representative points specify location in a multidimensional feature space. After identifying a set of representative points, a c-means clustering algorithm is applied to the data set. The c-means clustering algorithm determines a set of cluster centers (A1, A2, A3 and A4 in Figure [[10B]] 10A). 20 and 40 cluster centers may be used for a 5-10 dimensional feature space. The invention is not limited to any particular numbers of cluster centers. The iterative c-means algorithm based upon relative Mahalanobis distance determines the cluster centers. Details of the foregoing techniques are provided in ["] "Multivariate Observations" by G. A. F. Seber, (1984), published by, John Wiley & Sons, incorporated herein by reference in its entirety.